

Data Browser

The following topics are covered:

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 - File Selection
 - Field Selection
 - Output Report Fields
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 - Summary
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General Information

The Natural Data Browser is a development tool wizard within Natural Studio. It enables you to create data reports of files in your Natural environments. You can define the fields occurring in the report and a filter criteria. The resulting report data is displayed in the result view of Natural Studio. From the result view you can select records for printing or for saving as a text file.

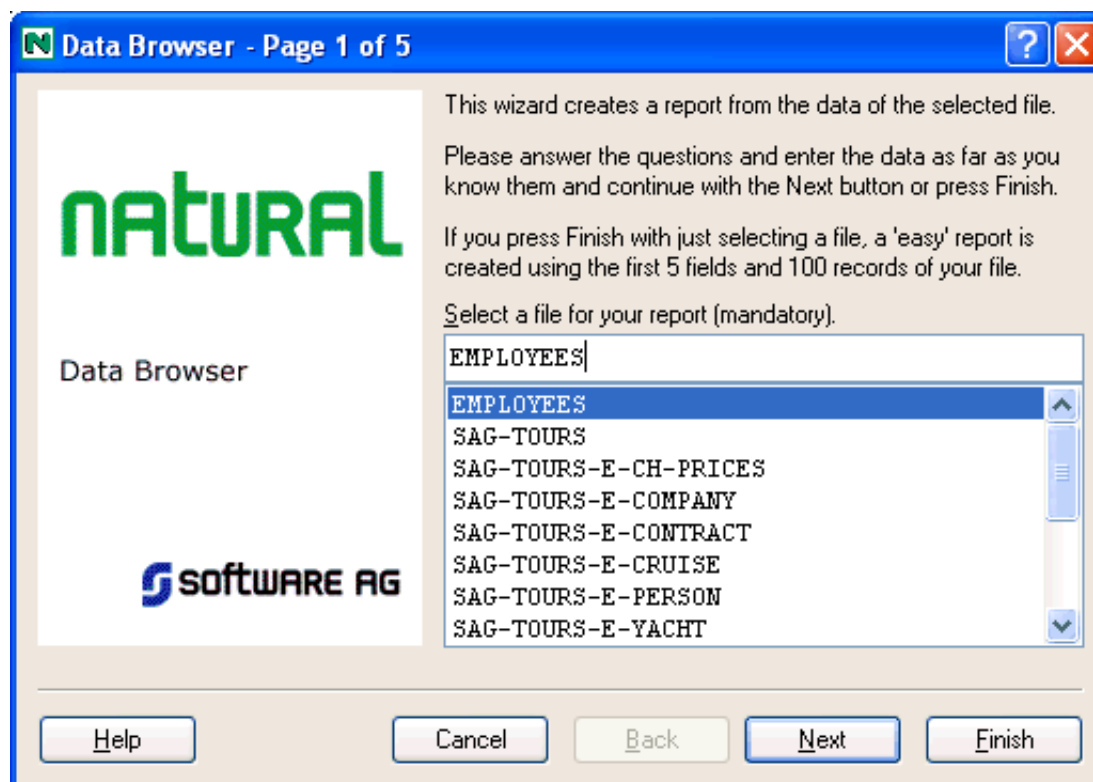
You can create as many reports as you want and in parallel are available in the result view, each on an own tab page.

The Natural Data Browser is available on the Windows platform in the SpoD environment. Files in local and remote Natural environments can be accessed. To use the Data Browser in a remote Natural environment on a mainframe or UNIX server, you just have to connect to the environment.

Navigation

Help	Activates the Natural Help system and leads to this chapter.
Cancel	Closes the dialog box without making any changes.
Back	Displays the previous page in the Data Browser.
Next	Displays the next page in the Data Browser
Finish	Ends the report definition, generates the data base request and displays the report layout in the result view of Natural Studio.

File Selection



The file list displays all catalogued file descriptions (DDMs) of the current Natural environment or library.

In a local Windows environment or in a remote UNIX environment it depends on the FDDM option setting what files you will see. In case that the FDDM option is set, all file descriptions in the FDDM file will be displayed. If the FDDM option is not set you will see the file descriptions that exist in your current library and steplib.

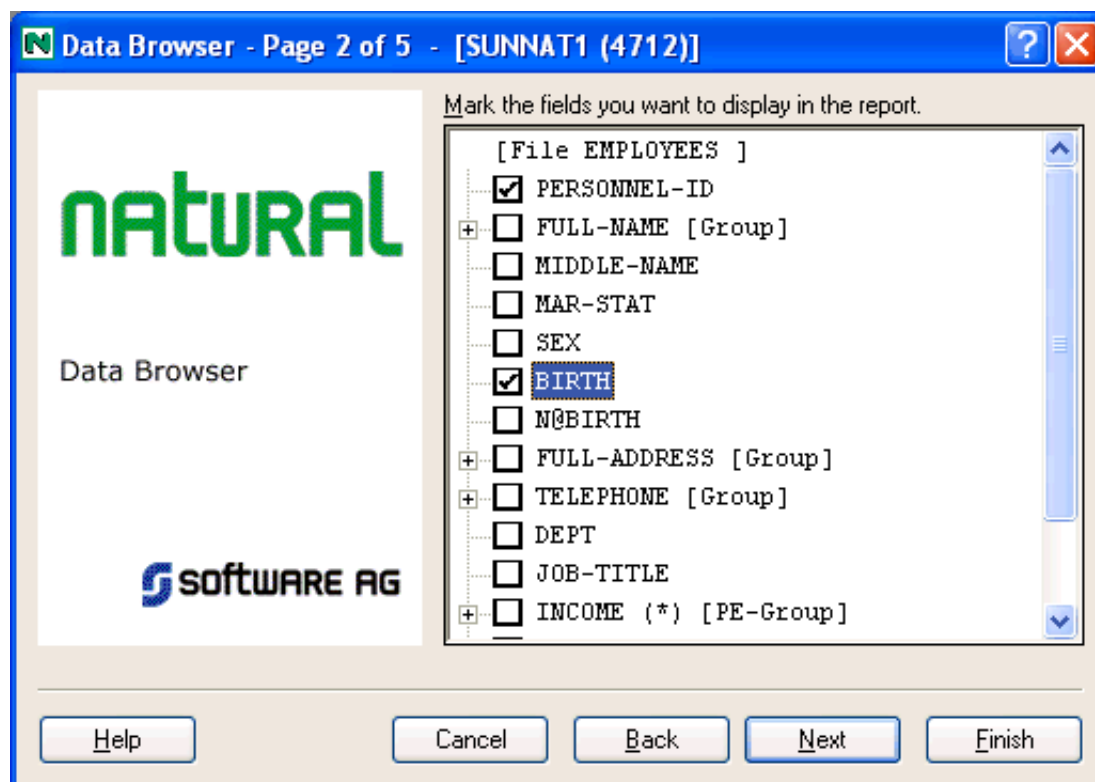
In a remote mainframe environment you always will see the files of the current FDIC

The selection of a file is mandatory. After file selection, a check is performed whether the DB or file is available.

If this is not the case, the file check will report the reason for the error, usually a DB response code. Based on this information, the user can take measures to rectify the error and activate the file.

After file selection, "Next" can be used to make further definitions or "Finish" can be used to start the generation of the report. If report creation is started on the first page (after selection of the file), the Data Browser creates an "easy report" that, in the absence of user definitions, outputs the first 100 records of the file with the first 5 fields of the record. As soon as there are user definitions for report fields or filters, these replace the "easy report" standard.

Field Selection



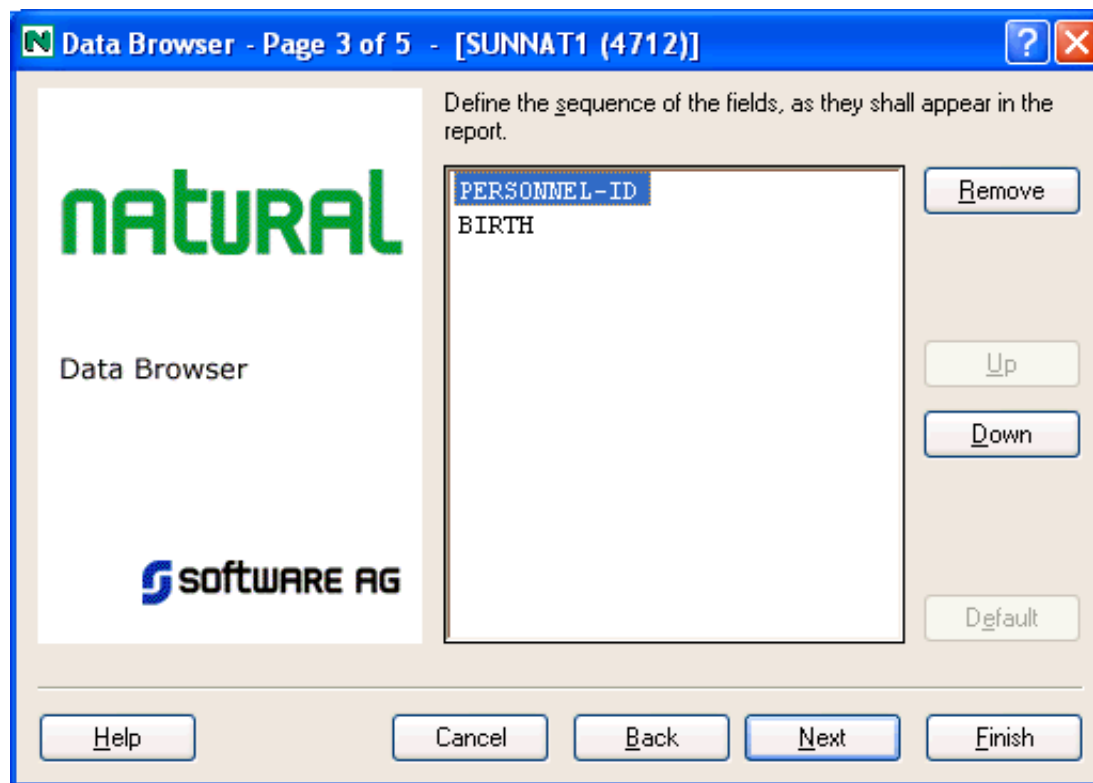
All fields of the selected DDM are displayed in the TreeView. Groups are "collapsed" and can be "expanded" by clicking on them. Every item in the TreeView has a checkbox. The fields that are "checked" here are taken over into the list of output fields. If groups are "checked", all individual fields and subgroups that belong to them are automatically "checked". If in a group, because of manual intervention, not all fields are "checked", a third state "partly-checked" is displayed for the group name. An "uncheck" occurs accordingly and causes the field or fields of a group to be removed from the output list.

Context Menu:

The context menu offers following functions:

Expand All / Collapse All	Expands / collapses all group fields of the DDM.
Select All / Deselect All	Selects / deselects all fields of the DDM.
Properties	Opens a pop-up window containing properties of the selected field. (For more information refer to Field Properties) Or, if the file name is selected, the file properties show the DBID, the file number and the file type.

Output Report Fields



All individual fields that were selected in the TreeView are listed here. The sequence in which the fields appear present is the sequence of the report (from left to right).

The buttons "Up" and "Down" are provided for modifying the output sequence. They move the corresponding selected field one position up or down.

Using "Remove", the selected field can be deleted from the report list.

With the "Default" button, the output sequence corresponding to the DDM structure is recreated.

If no fields were selected in the TreeView, this page is skipped and per default the first 5 fields of the DDM are used for the report output.

Context Menu:

The context menu offers following functions:

Position Top / Position Bottom	Positions the selected field to the top or bottom of the field list.
Properties	Opens a pop-up window containing properties of the selected field. (For more information refer to Field Properties).

Filter Criteria

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Data Browser
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You can limit the number of data records by defining a filter criteria.

Select a filter criteria.
NAME

Enter a start value in format (A20)
P

Enter an end value in format (A20)
S

Filter by number of records: 10 (0 is 'No Limits')

Help Cancel Back Next Finish

A report can be generated unfiltered, in that the records are read as they stand physically in the file ("Physical Read"). This is the default. The range of values of the descriptor field can be defined by a start value and additionally by an end value. An end value can be applied only if a start value exists and the start value must be less than the end value. The appropriate value format is shown in the label of the start/end value.

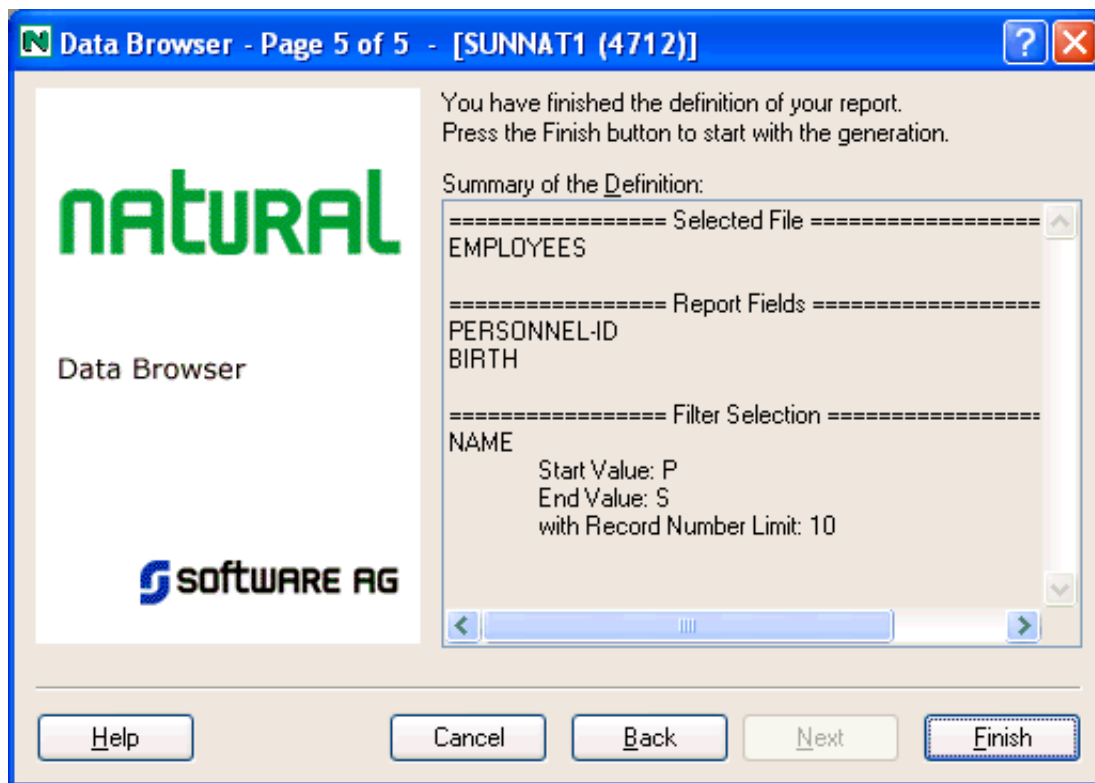
All filter criteria can be further limited by entering an absolute record limits. Independent of filter criterion only the corresponding number of records is written in the result list (report). By entering "0", the record limit is switched off.

Context Menu:

The context menu of the filter criteria offers following functions:

Properties	Opens a pop-up window containing properties of the selected field. (For more information refer to Field Properties).
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Summary



All report definitions are summarized on the last page of the Data Browser.

Field Properties

In the Data Browser Wizard, wherever a field name occurs in a list, properties for the field can be displayed using the Context Menu.

For each field, the general and detail properties are offered, and for fields with header or edit-mask entries, layout properties too.

The tab with the general properties shows:

Properties of field PERSONNEL-ID

General Details Layout

Name: PERSONNEL-ID

Format: A Alphanumeric

Length: 8

Type: - Elementary Field

Dimension: Periodic Multiple

Occurrences:

Comment:

C= COUNTRY

OK Cancel

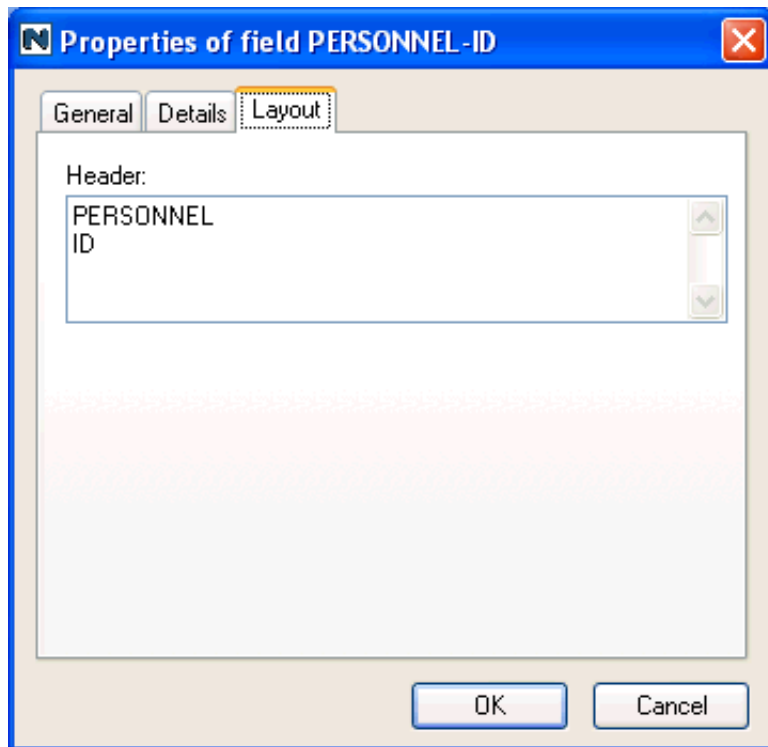
Name	Name as of the DDM.
Format	Format as of the DDM.
Length	Length as of the DDM.
Type	Group, Periodic group, Multiple-value field or Elementary field.
Dimension	For a PE/MU field, the required occurrence can be entered that shall appear in the report.
Comment	Comment as of the DDM.

The tab with the detail properties shows:



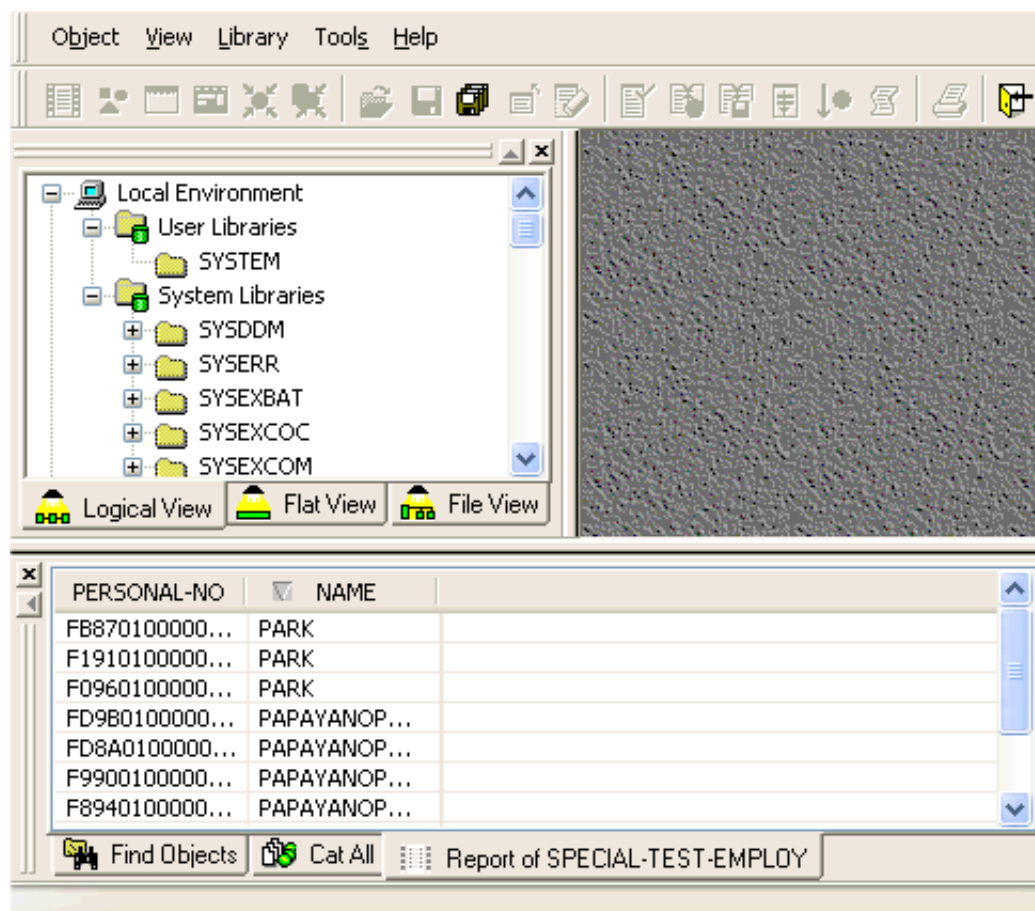
Descriptor	Descriptor, Subdescriptor or Superdescriptor, Hyperdescriptor, Non-descriptor.
Suppression	Null value suppression, Fixed storage, Not null.
Short Name	Adabas short name of the DDM.
Level	Level as of the DDM.
Filename	Filename as of the DDM.
Group Hierarchy	All group level to which a field belongs are given by Level, Type and Name.

The (optional) tab with the layout properties shows:



Edit Mask	Edit Mask as of the DDM.
Header	Header as of the DDM.

Result View



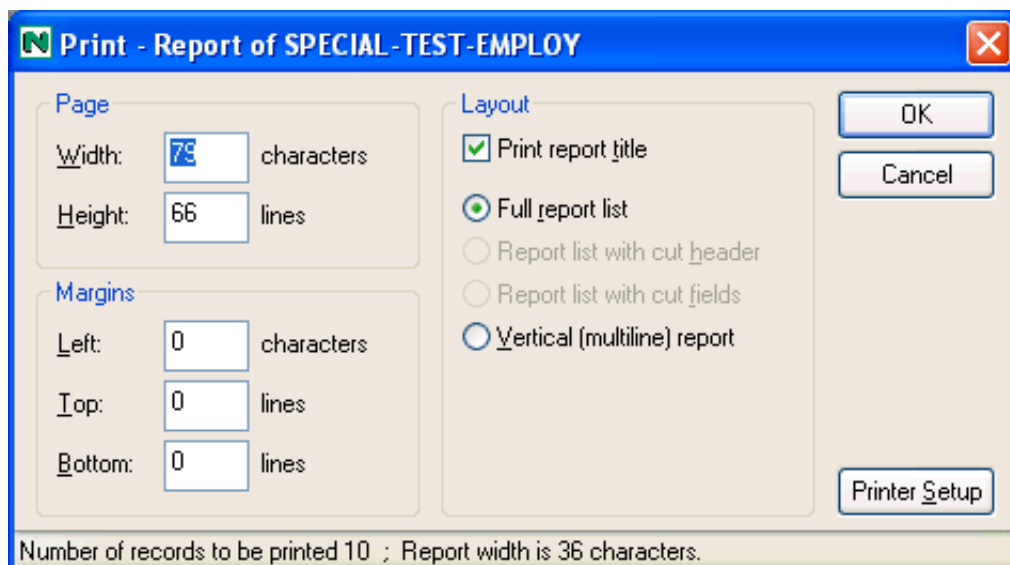
The result lists of the Data Browser are displayed in the Natural result view. You can have as many reports as you want in parallel. With a "Click" on the column header, the lines are sorted by the column value ascending or descending. Modification of the column sequence is possible by shifting the column headers. One or more lines of the result list can be selected for actions from the Context Menu.

Context Menu:

The context menu offers following functions:

Select All	All lines of the result list are selected.
Output	Output of the selection from the result list.
Print Selection	Prints the selected lines of the result list. (For more information refer to Print)
Export Selection to Textfile	Writes the selected lines of the result list in a text file (.txt). (For more information refer to Save Report Data)
Delete Tab	The current Tab is deleted.
Delete Tab and Hide	The current Tab is deleted and the result view is closed.
Properties	Additional information for the current report is displayed. (For more information refer to Properties of Report).

Print



Print - Report of SPECIAL-TEST-EMPLOY

Page

Width: 73 characters

Height: 66 lines

Margins

Left: 0 characters

Top: 0 lines

Bottom: 0 lines

Layout

☒ Print report title

☒ Full report list

☐ Report list with cut header

☐ Report list with cut fields

☐ Vertical (multiline) report

OK

Cancel

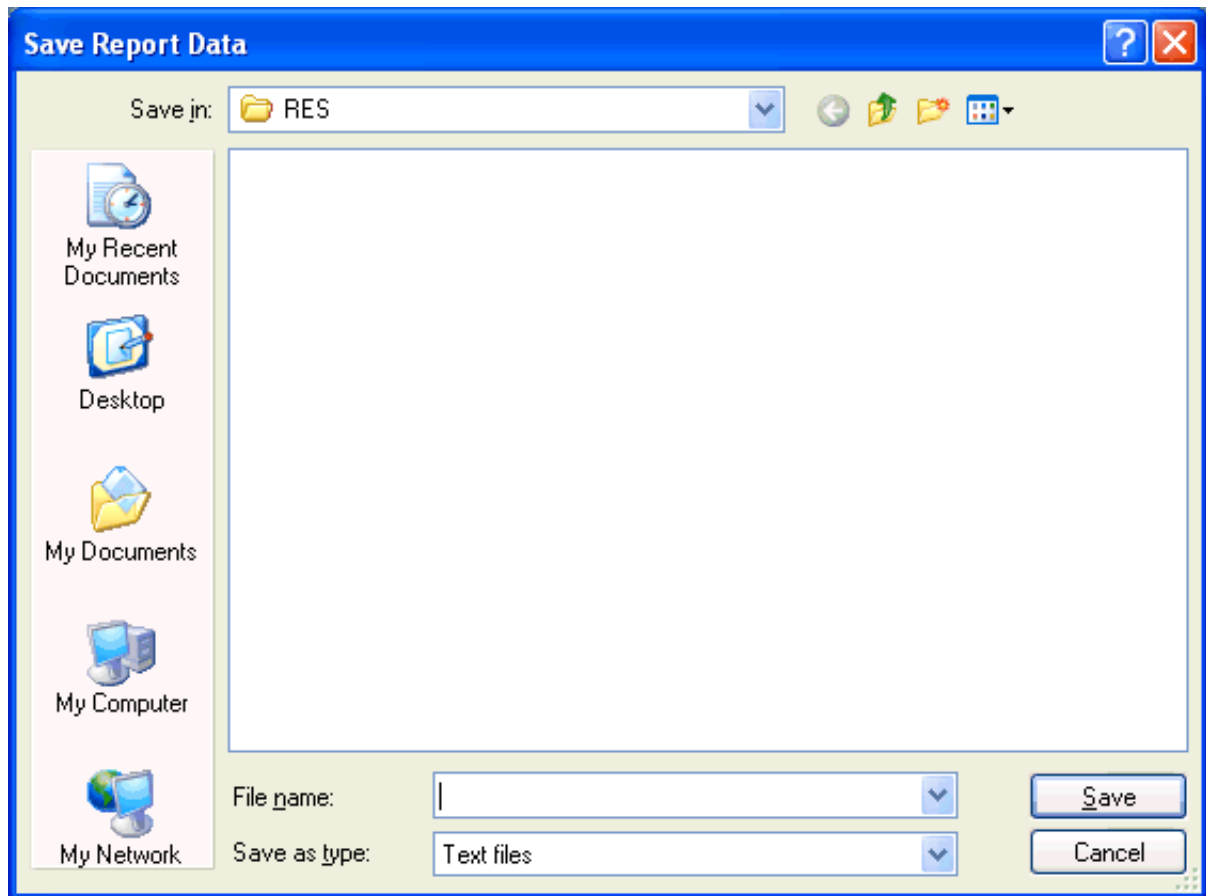
Printer Setup

Number of records to be printed 10 ; Report width is 36 characters.

Page	Define the report width and height as matching to printer page size.
Margins	Page margins can be set define an unprinted border on the left or empty line areas at top or bottom of the page.
Layout	<p>For some criteria you can define the printed report layout.</p> <ul style="list-style-type: none"> ○ A report title can be set, containing the report creation date, the selection criteria and the number of records printed. ○ A record format can be selected, as far as depending on the report size offered, to see a full report list, report list with cut header or fields or a report list with field headers and values in vertical sequence.

The status line informs about the selected number of records and the original width of the report in characters. With the Printer Set-up you reach the PC printer set-up dialog to select one of the printers available in your system.

Save Report Data



The standard save dialog enables you to enter a file name completed with the file type ".txt".

The text file contains the selected lines of the result list with the delimiters: comma for values of a line and CR for lines.

Properties of Report

Properties of Report

General Field properties

File: SPECIAL-TEST-EMPLOY

DBID/FNR/Type: 20 / 11 / ADABAS

Selection criteria: NAME

Start value: P

End value: S

Record limit: 10

Result records: 10

Creation date: 03-05-26, 11:32:09

Environment: SUNNAT1 (4712)

Library: SYSTEM

OK

The tab with the general properties shows:

File	File name.
DBID / FNR/Type	Data base ID, file number and data base type.
Selection Criteria	Selection criteria as entered in the Data Browser.
Start value	Start value as entered in the Data Browser.
End value	End value as entered in the Data Browser.
Record limit	Record limit as entered in the Data Browser.
Result records	Number of records shown in the report.
Creation date	Date and time when the report was created.
Environment	Name or Alias of the environment where the data were retrieved.
Library	The library from which the Data Browser was started to create the current report.

Properties of Report

General **Field properties**

Name:

Format: A Alphanumeric

Length: 20

Type: - Elementary Field

Dimension: Periodic Multiple

Occurrences: ☐ ☐

Level: 1

Descriptor: D Descriptor

OK

The tab with the field properties shows:

Name	Enables a field name selection to see its properties.
Format	Format as of the DDM.
Length	Length as of the DDM.
Type	Group, Periodic group, Multiple-value field or Elementary field.
Dimension	Shows the displayed occurrence of a PE/MU field.
Level	Level as of the DDM.
Descriptor	Descriptor, Subdescriptor or Superdescriptor, Hyperdescriptor, Non-descriptor.